SWP Water Quality Summary

July 8 to August 12, 2009

Electrical Conductivity: EC increased at Harvey O. Banks Pumping Plant (HBP) and Vallecitos, but decreased at Check 29, Check 41, Devil Canyon and Barker Slough from July 8 to August 12, 2009. Concentrations ranged from 213 µS/cm to 603 µS/cm (128ppm to 362ppm), below the Article 19 Monthly Average Objective of 440 mg/L (733 µS/cm). Daily average concentrations varied at all the locations. As of August 12, 2009, the lowest and highest concentrations of 213 µS/cm and 473 µS/cm occurred at Barker Slough and Vallecitos, respectively. Concentrations increased substantially this month at HBP from 229 µS/cm to 457 µS/cm.

Bromide: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations and ranged from 0.06 mg/L to 0.32 mg/L. As of August 12, Barker Slough had the lowest concentration of 0.06 mg/L, followed by Check 41 with 0.12 mg/L, while the highest concentration of 0.21 mg/L occurred at Vallecitos. Concentrations at HBP had been relatively steady, but increased this month, from 0.06 mg/L to 0.20 mg/L as of August 12, 2009.

Turbidity: Turbidity levels decreased at HBP and Vallecitos, but increased at Check 41 and Devil Canyon this month. Turbidity levels ranged from 1.0 NTU to 55.8 NTU. On August 12, 2009, the lowest level of 1.0 NTU occurred at Check 29, while the highest level of 6.2 NTU occurred at HBP. HBP mean daily turbidity levels decreased from 13.1 NTU on July 8 to 6.2 NTU as of August 12, 2009.

Dissolved Organic Carbon (DOC): Concentrations decreased at HBP and Check 13, but increased at Edmonston, from July 8 to August 12, 2009. DOC daily average concentrations at HBP, Check 13 and Edmonston varied from 3.0 mg/L to 2.3 mg/L, from 3.4 mg/L to 2.3 mg/L and from 2.4 mg/L to 2.7 mg/L, respectively, as of August 12, 2009.

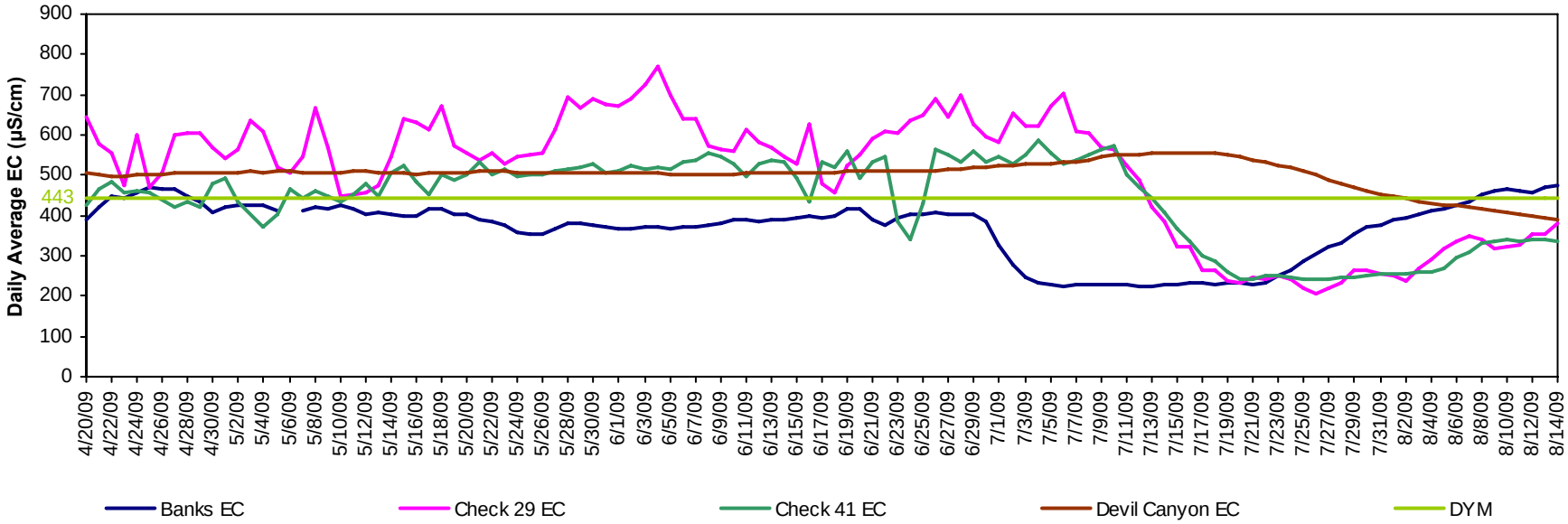
Taste and Odor Compounds: MIB and geosmin concentrations in the SWP were low project-wide, ranging from non-detect to 14 ng/L. Several readings were taken this month at Clifton Court inlet and outlet, HBP, Lake Del Valle Check 7, San Luis Reservoir, Pacheco PP, O'Neill Forebay Outlet @Check 13, Check 41, Check 66, Castaic Lake, Silverwood Lake and Lake Perris from July 8 to August 12, 2009.

Pump-ins: Pump-ins to the State Water Project (SWP) from the banking programs Arvin Edison Water Storage District, Kern Water Bank Authority (who operate the Kern Water Bank Canal), Kern County Water Agency (who operate the Cross Valley Canal), Semitropic Water Storage District and Wheeler Ridge Maricopa Water Storage District totaled 24,463-acre feet (AF).

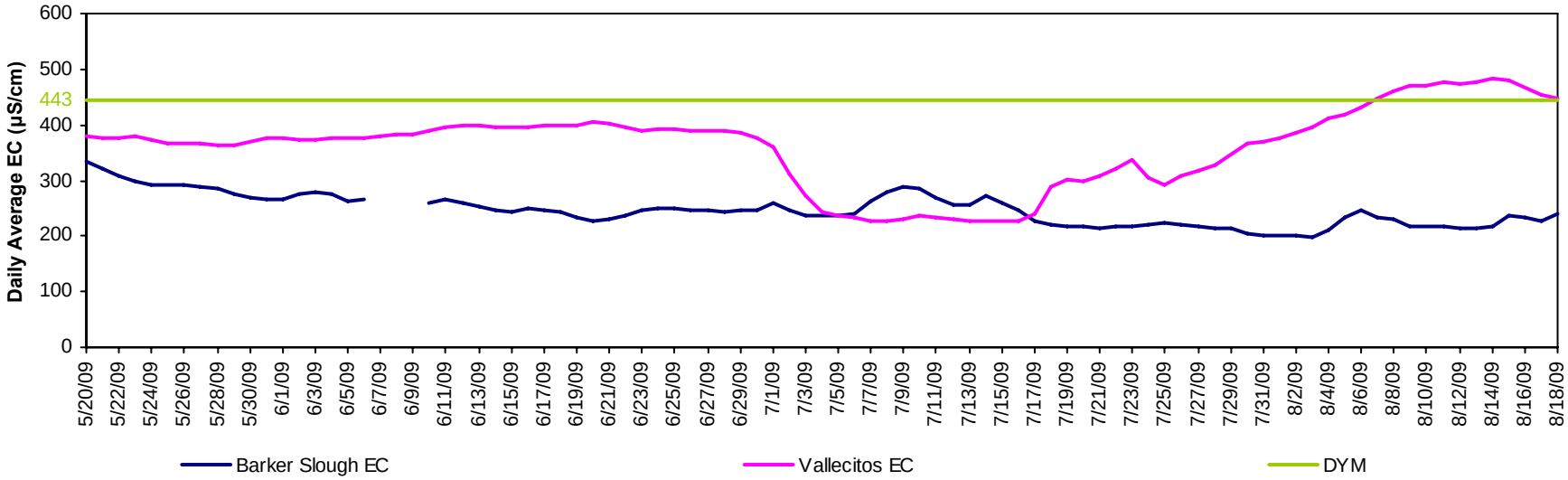
Note: The intent of the monthly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia at 916-653-7213, or Austine Eke at 916-653-7227. To view water quality data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm and click on a

station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

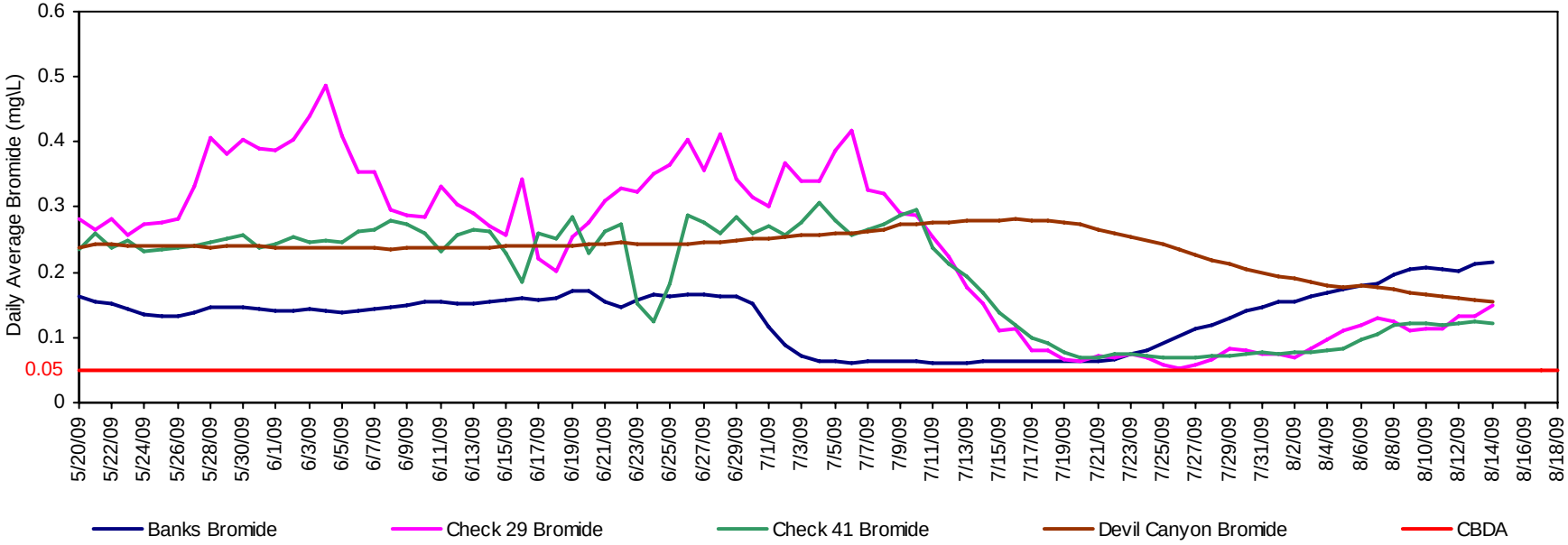
California Aqueduct - Electrical Conductivity



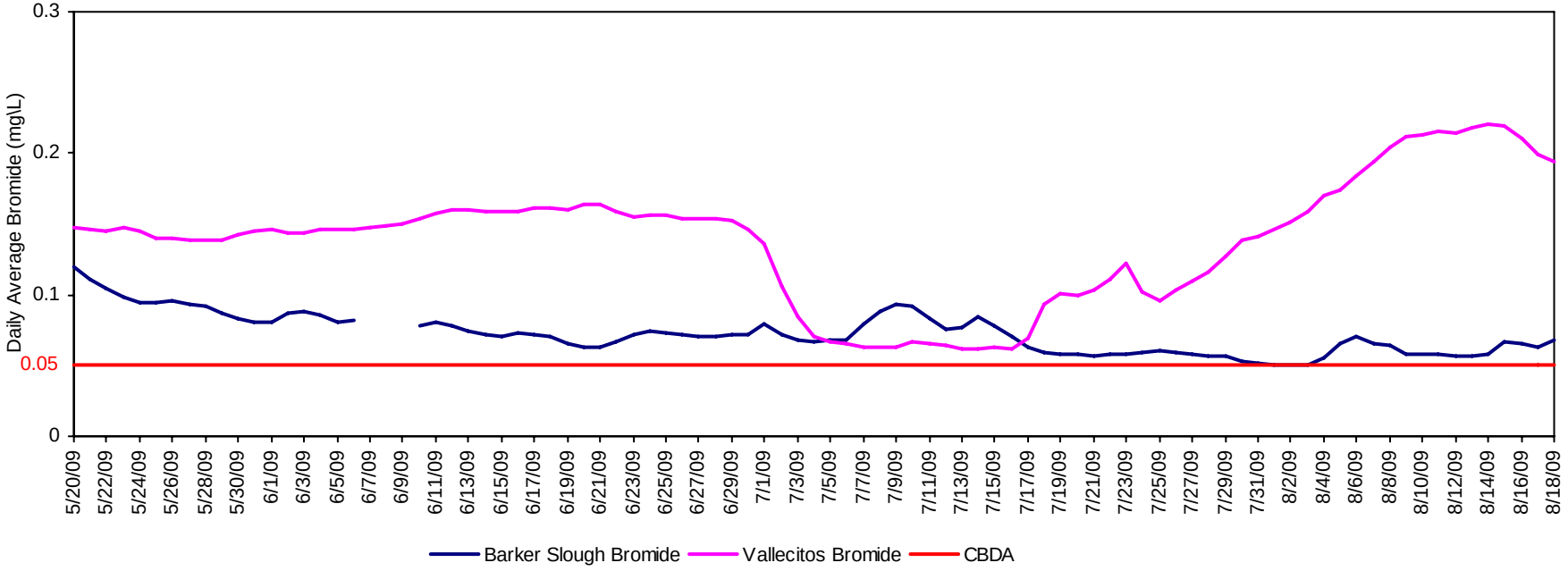
North and South Bay Aqueduct - Electrical Conductivity



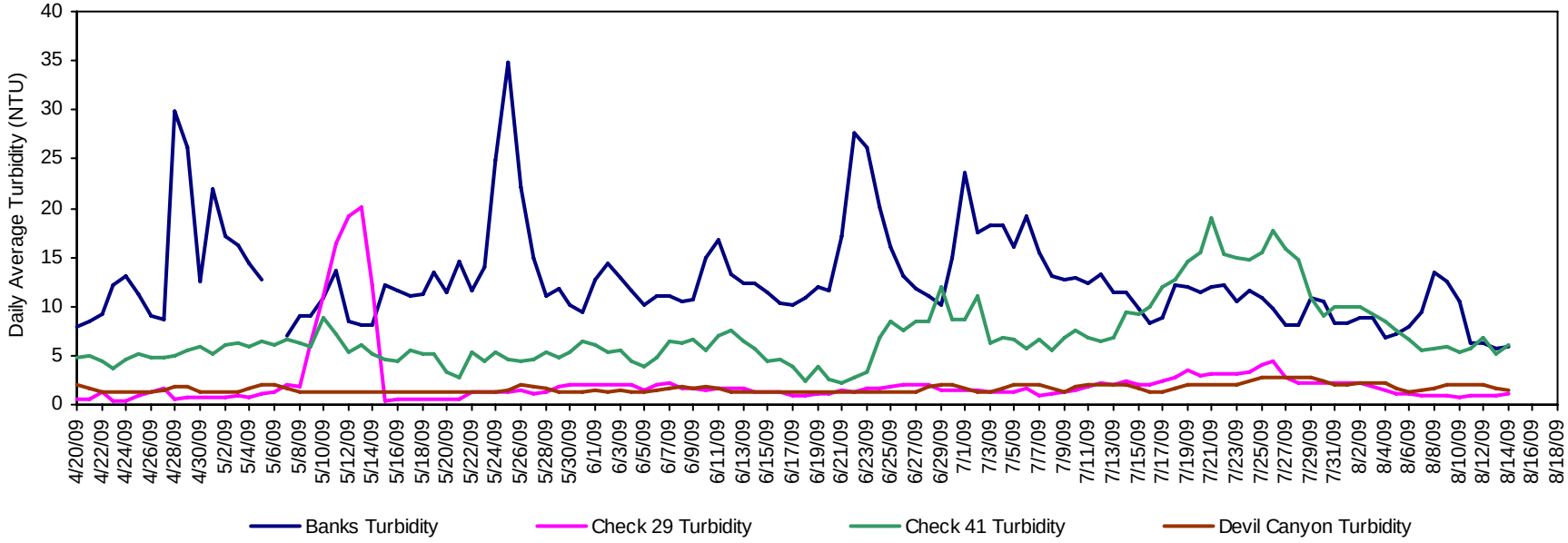
California Aqueduct - Calculated Bromide



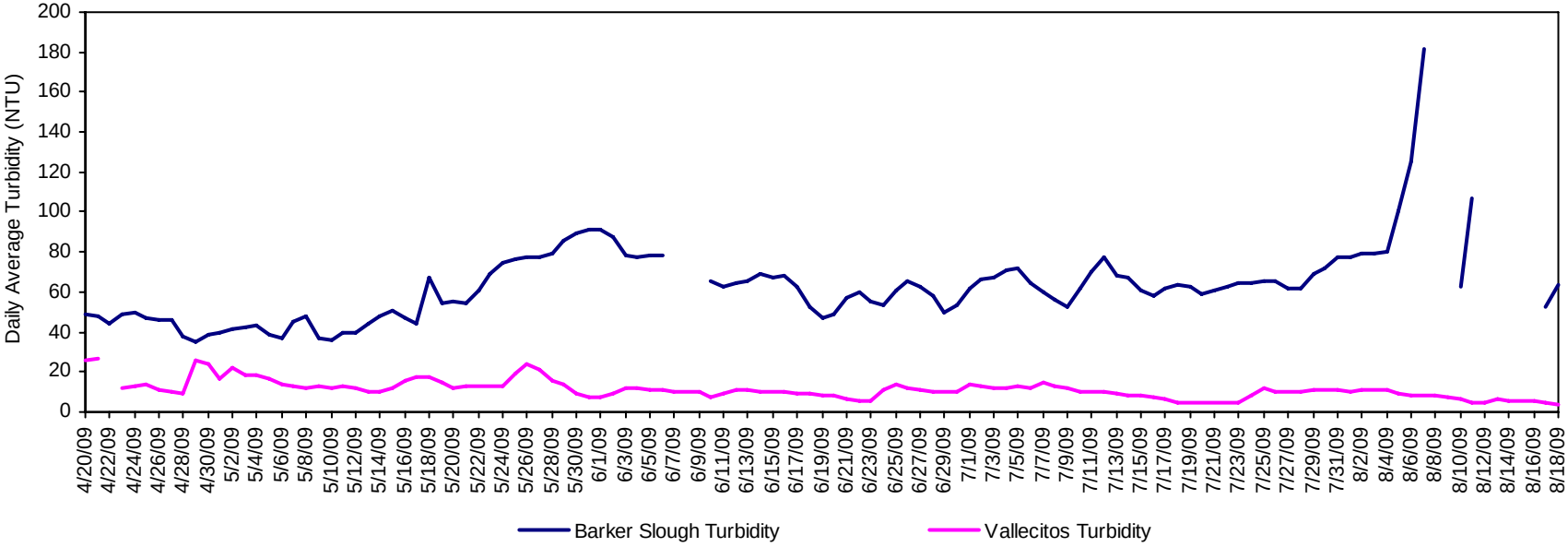
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct
Calculated Dissolved Organic Carbon